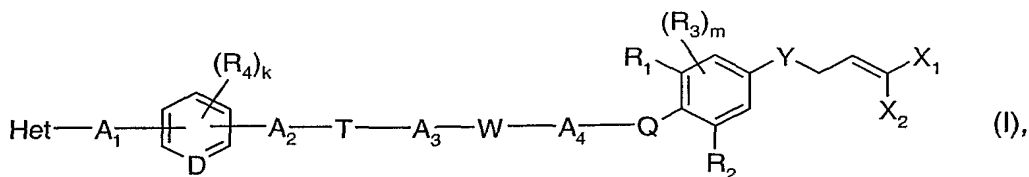


What is claimed is:

1. A compound of formula



wherein

Het is non-aromatic heterocyclyl that does not contain cumulative double bonds and that has 5 or 6 ring members of which the linking ring member, by way of which Het is linked, by means of a first single bond, to the remainder of the compound of formula I, is either a nitrogen atom that carries two further single bonds which lead to the two ring members of Het directly adjacent to that nitrogen atom, or a carbon atom that carries a further single bond and a double bond which lead to the two ring members of Het directly adjacent to that carbon atom, and the remaining 4 or 5 ring members of Het are, independently of one another, selected from the group consisting of the ring members -C(R_i)(R_{ii})-, -C(=O)-, -C(=S)-, -O-, -S-, -N(R_{iii})-, -C(R_{iv})= and -N=, wherein (A) of the 5 or 6 ring members of Het, from 1 up to and including 4 ring members, independently of one another, each contributes a hetero atom to the basic ring structure of Het consisting of 5 or 6 ring atoms, (B) two directly adjacent ring members of Het are not both -O-, and (C), when the mentioned linking ring member of Het is a nitrogen atom, either (i) at least one ring member of the mentioned remaining 4 or 5 ring members of Het is -N= or (ii) at least one of the 2 or 3 ring members of Het that are neither the mentioned linking ring member of Het nor its two directly adjacent ring members is -C(=O)- or -C(=S)- or (iii) at least three ring members of the mentioned remaining 4 or 5 ring members of Het are each independently of the others -C(R_{iv})= or (iv) at least two ring members of the mentioned remaining 4 or 5 ring members of Het are each independently of the other(s) -O-, -S- or -N(R_{iii})- and, when the mentioned linking ring member of Het is a carbon atom, either (v) the mentioned double bond starting from that carbon atom leads to a nitrogen atom or (vi) the ring member of Het bonded to the mentioned further single bond starting from that carbon atom is -C(=O)- or -C(=S)-;

R_i and R_{ii} are each independently of the other hydrogen, halogen, C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyl, C₂-C₆alkynyl or C₁-C₆alkoxy-C₁-C₆alkyl;

R_{iii} is C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyl, C₂-C₆alkynyl or C₁-C₆alkoxy-C₁-C₆alkyl;

R_{iv} is hydrogen, halogen, C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyl, C₂-C₆alkynyl or C₁-C₆alkoxy-C₁-C₆alkyl;

A₁, A₂ and A₃ are each independently of the others a bond or a C₁-C₆alkylene bridge which is unsubstituted or substituted from one to six times by, each independently of the other(s), C₃-C₈cycloalkyl, C₃-C₈cycloalkyl-C₁-C₆alkyl or halo-C₁-C₃alkyl;

A₄ is a C₁-C₆alkylene bridge which is unsubstituted or substituted from one to six times by, each independently of the other(s), C₃-C₈cycloalkyl, C₃-C₈cycloalkyl-C₁-C₆alkyl or halo-C₁-C₃alkyl;

D is CH or N;

W is O, NR₅, S, S(=O), S(=O)₂, -C(=O)-O-, -O-C(=O)-, -C(=O)-NR₆- or -NR₆-C(=O)-;

T is a bond, O, NH, NR₅, S, S(=O), S(=O)₂, -C(=O)-O-, -O-C(=O)-, -C(=O)-NR₆- or -NR₆-C(=O)-;

Q is O, NR₅, S, S(=O) or S(=O)₂;

Y is O, NR₅, S, S(=O) or S(=O)₂;

X₁ and X₂ are each independently of the other fluorine, chlorine or bromine;

R₁ and R₂ are each independently of the other H, halogen, CN, nitro, C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, halo-C₂-C₆alkenyl, C₂-C₆alkynyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyloxy, halo-C₂-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆alkoxycarbonyl or halo-C₃-C₆alkynyloxy;

R₃ is halogen, CN, nitro, C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, halo-C₂-C₆alkenyl, C₂-C₆alkynyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyloxy, halo-C₂-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆alkoxycarbonyl or halo-C₃-C₆alkynyloxy, the two R₃ substituents being identical or different when m is 2;

R₄ is halogen, CN, nitro, C₁-C₆alkyl, halo-C₁-C₆alkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, halo-C₂-C₆alkenyl, C₂-C₆alkynyl, C₁-C₆alkoxy, halo-C₁-C₆alkoxy, C₂-C₆alkenyloxy, halo-

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C₂-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆alkoxycarbonyl or halo-C₃-C₆alkynyloxy, the R₄ substituents being identical or different when k is greater than 1;

R₅ is H, C₁-C₆alkyl, halo-C₁-C₃alkyl, halo-C₁-C₃alkylcarbonyl, C₁-C₆alkoxyalkyl, C₁-C₆alkylcarbonyl or C₃-C₈cycloalkyl;

R₆ is H, C₁-C₆alkyl, halo-C₁-C₃alkyl, halo-C₁-C₃alkylcarbonyl, C₁-C₆alkoxyalkyl, C₁-C₆alkylcarbonyl or C₃-C₈cycloalkyl;

k is 0, 1, 2 or 3 when D is N or is 0, 1, 2, 3 or 4 when D is CH; and

m is 0, 1 or 2,

and, where applicable, possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof, in each case in free form or in salt form.

2. A compound according to claim 1 in free form.
3. A compound according to any one of claims 1 to 2, wherein X₁ and X₂ are chlorine or bromine.
4. A compound according to any one of claims 1 to 3 wherein A₁ is a bond.
5. A compound according to any one of claims 1 to 4 wherein the group A₂-T-A₃ is a bond.
6. A compound according to any one of claims 1 to 5 wherein W is O, -C(=O)O- or -C(=O)NH-.
7. A compound according to any one of claims 1 to 6 wherein A₄ is a straight-chain alkylene bridge.
8. A compound according to any one of claims 1 to 7 wherein Q is oxygen.
9. A compound according to any one of claims 1 to 8 wherein Y is oxygen.
10. A compound according to any one of claims 1 to 9 wherein R₁ and R₂ are bromine or chlorine.
11. A compound according any one of claims 1 to 10 wherein m is 0.
12. A compound according to any one of claims 1 to 11 wherein R₄ is halogen and k is 2 or 0.
13. A compound according to any one of claims 1 to 12 wherein D is CH.

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14. A pesticidal composition comprising as active ingredient at least one compound according to any one of claims 1 to 13, in free form or in agrochemically usable salt form, and at least one adjuvant.

15. A process for the preparation of a composition as described in claim 14, which comprises intimately mixing the active ingredient with the adjuvants.

16. A method of controlling pests, which comprises applying a composition as described in claim 14 to the pests or to the locus thereof.